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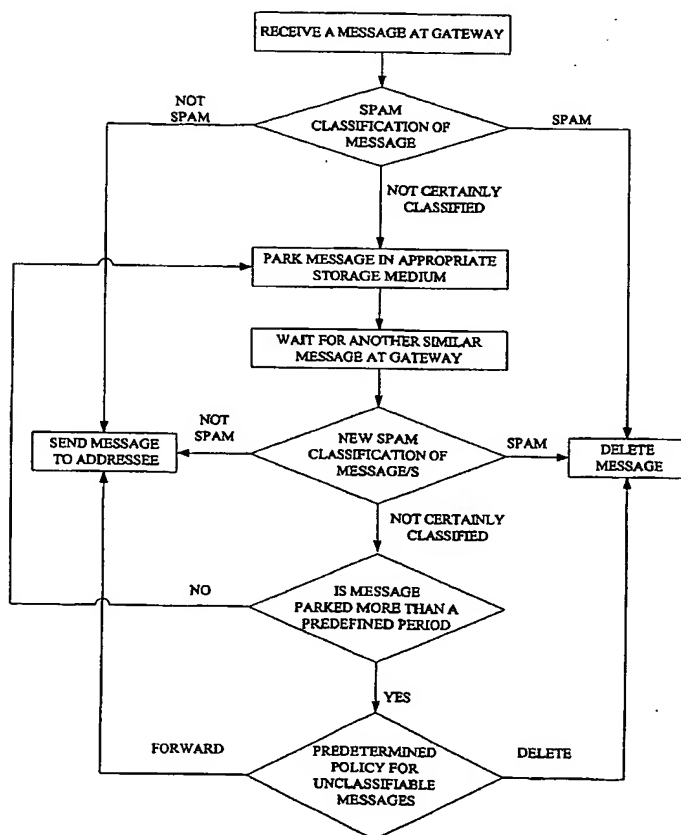
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[Continued on next page]

(54) Title: DETECTION AND PREVENTION OF SPAM



(57) Abstract: A method and system for combating spam, including obtaining information contained in messages, employing a variable criteria to the information, encrypting at least part of the information employing a non-reversible encryption so as to generate encrypted information, transmitting at least the encrypted information to a server for spam indication thereby receiving from the server classification data and determining the spam classification of the messages at least partially based on the classification data.

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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/01103

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/173, 11/30, 12/14; H04L 09/00, 09/32
US CL : 709/206; 713/200, 201

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 709/206; 713/200, 201

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	JP 2003348162 A (NEC CORP.) 05 December 2003 (05.12.2003), see Abstract.	1-186
A,P	JP 2003099372 A (FUJITSU LTD.) 04 April 2003 (04.04.2003), see Abstract.	1-186
A,P	JP 2003099371 A (TOSHIBA CORP.) 04 April 2003 (04.04.2003), see Abstract.	1-186
A,P	JP 2003087327 A (SHARP CORP.) 20 March 2003 (20.03.2003), see Abstract.	1-186
A,P	WO 03/054,764 A1(LEE et al.) 03 July 2003 (03.07.2003), see Abstract.	1-186
A,T	US 6,687,740 B1 (GOUGH et al.) 03 February 2004 (03.02.2004), column 2, line 14-52.	1-186
A,T	US 6,691,156 B1 (DRUMMOND et al.) 10 February 2004 (10.02.2004), column 2, line 23 to column 3, line 37.	1-186
A,P	US 6,615,241 B1 (MILLER et al.) 02 September 2003 (02.09.2003), column 5, lines 14-38; column 6, lines 26-38.	1-186
A	US 6,330,590 B1 (COTTEN) 11 December 2001 (11.12.2001), column 3, line 6 to column 5, line 23.	1-186

☒ Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:	
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"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer Ayaz Sheikh Telephone No. (703)305-3900

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,161,130 A (HORVITZ et al.) 12 December 2000 (12.12.2000), column 4, line 40 to column 6, line 4; column 8, line 40 to column 9, line 51; column 10, lines 38-49; column 11, line 55 to column 12, line 52; column 13, line 29-57; column 14, line 1-58; column 15, line 30 to column 16, line 67.	1-186

INTERNATIONAL SEARCH REPORT

PCT/IL03/01103

Continuation of B. FIELDS SEARCHED Item 3:

IEEE, EAST, ACM

search terms: spam, junk, e-mail, unwanted, unsolicited, messages